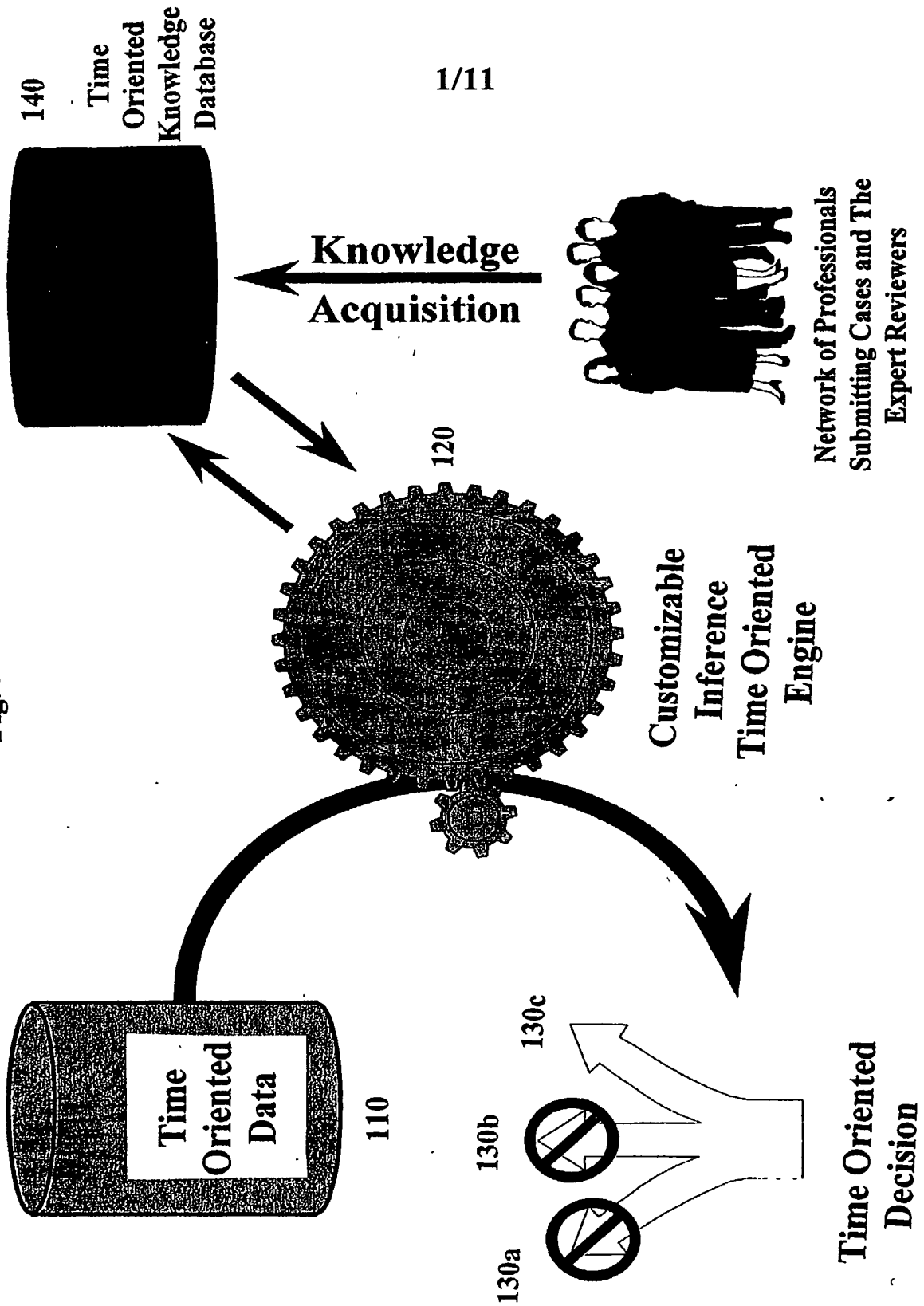
140
Time Oriented Knowledge Database
Knowledge Acquisition
Network of Professionals Submitting Cases and The Expert Reviewers
120
Customizable Inference Time Oriented Engine
Time Oriented Data
110
130a
130b
130c
Time Oriented Decision

Fig. 1

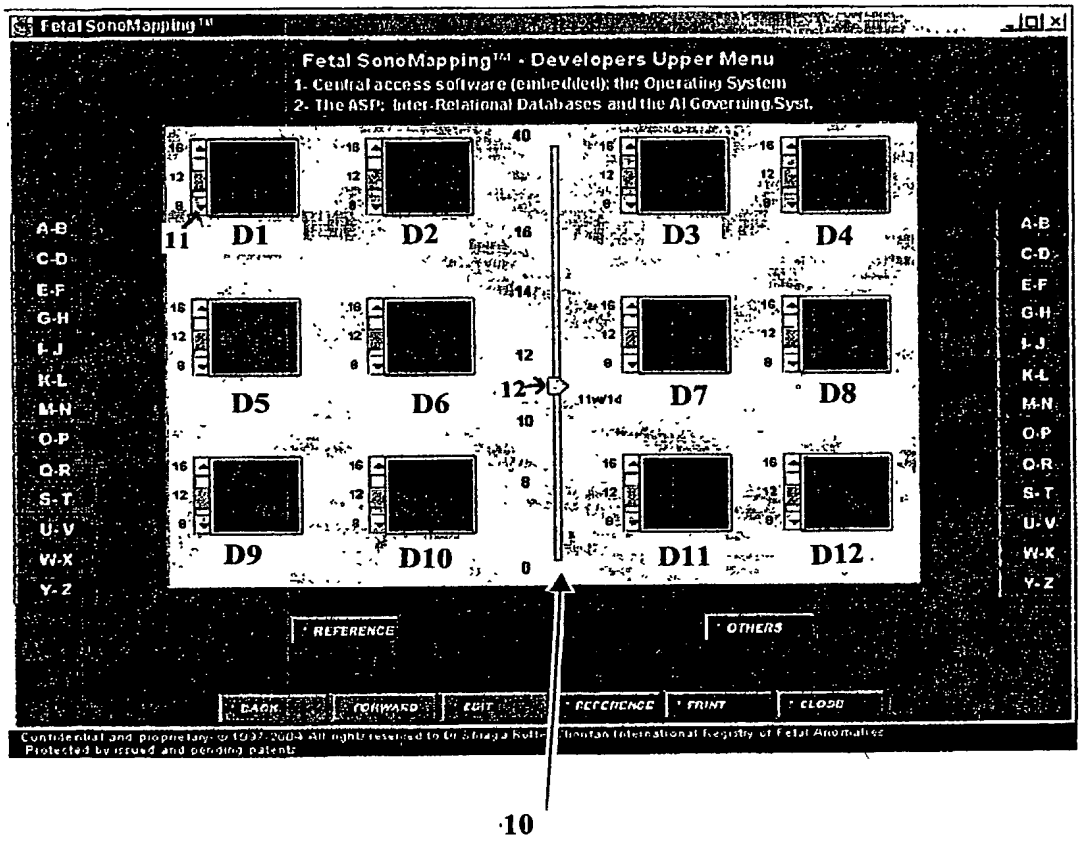
Fetal SonoMapping™
Fetal SonoMapping™ - Developers Upper Menu
1- Central access software (embedded): the Operating System
2- The ASP: Inter-Relational Databases and the AI Governing Syst.
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
A-B
C-D
E-F
G-H
I-J
K-L
M-N
O-P
Q-R
S-T
U-V
W-X
Y-Z
REFERENCE
OTHERS
BACK
FORWARD
EDIT
REFERENCE
PRINT
CLOSE
11
12
10

Fig. 2

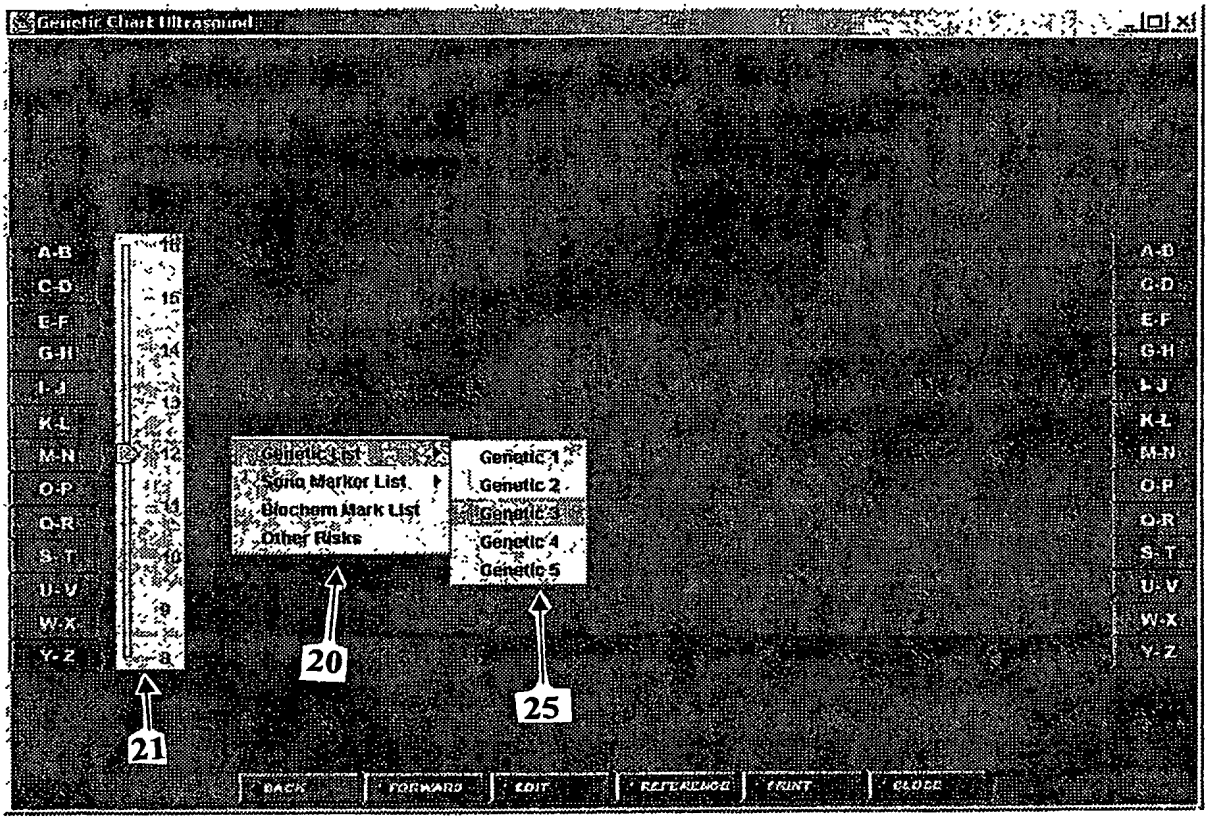
Genetic Chart Ultrasound
A-B
C-D
E-F
G-H
I-J
K-L
M-N
O-P
Q-R
S-T
U-V
W-X
Y-Z
Genetic 1
Genetic 2
Genetic 3
Genetic 4
Genetic 5
Genetic List
Gene Marker List
Biochem Mark List
Other Risks
20
21
25
BACK
FORWARD
EDIT
REFERENCE
PRINT
CLOSE

Fig. 2A

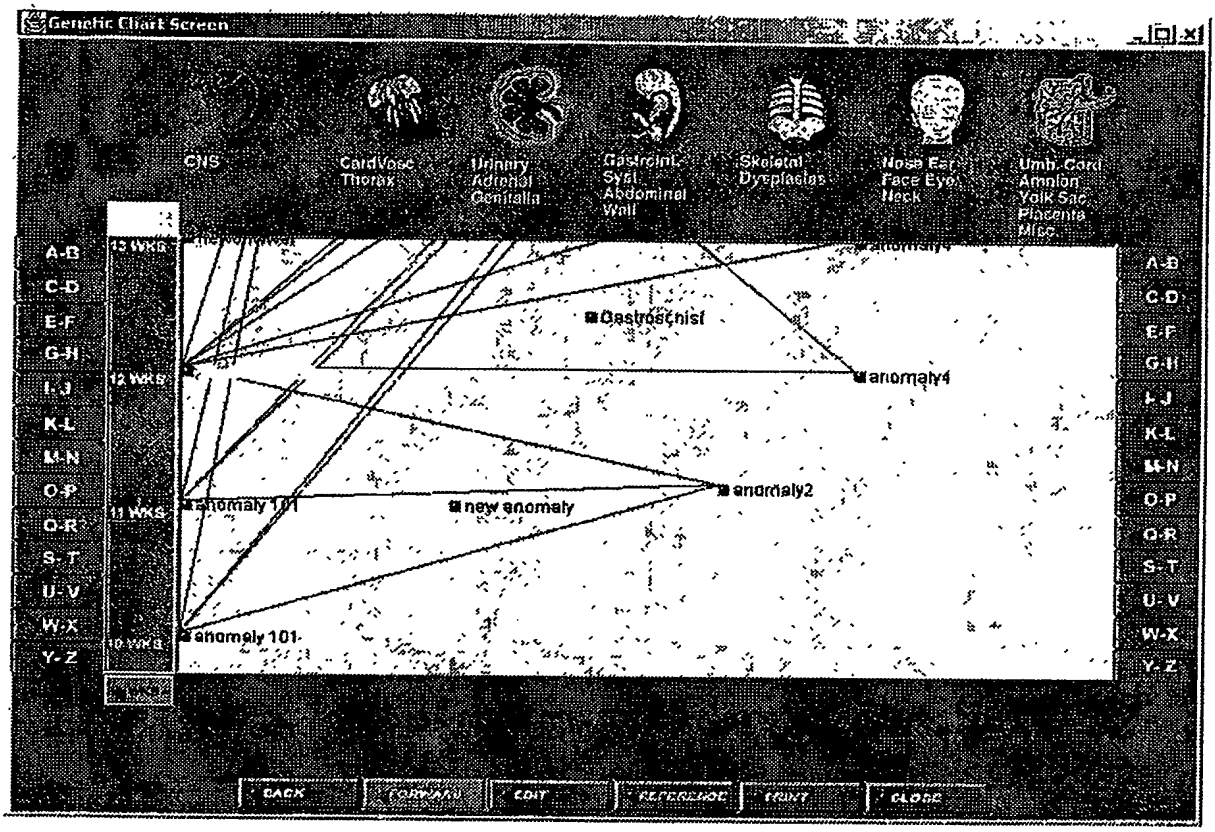
Genetic Chart Screen
CNS
CardVasc
Thorax
Urinary
Adrenal
Genitalia
Gastrointl
Sys
Abdominal
Wall
Skeletal
Dysplasias
Nose Ear
Face Eye
Neck
Umb.Cord
Amnion
Yolk Sac
Placenta
Misc
A-B
C-D
E-F
G-H
I-J
K-L
M-N
O-P
Q-R
S-T
U-V
W-X
Y-Z
13 WKS
12 WKS
11 WKS
10 WKS
Gastroschisi
anomaly4
anomaly2
anomaly 101
new anomaly
anomaly 101
BACK
FORWARD
EDIT
REFERENCE
PRINT
CLOSE

Fig. 2B

IRONFAN Anomalies	Earliest seen	Algo Based Most Common Syndrome	Algo Based Associated Signs	Earliest seen&Classif	Algo Based Alternative Syndromes by Probability with Polydactyly at 10 wks, After Exclusion of Meckel-Gruber Syndrome	Algo based new associated sign
Polydactyly (101)	10wks	Meckel Gruber Syndrome			Bardet-Biedl syndrome	
			Sloping forehead		Ellis-Van Creveld syndrome	
			Micrognathia	12wks I	Short rib polydactyly syndrome Type 1	
			Potter-like facies		Pallister-Killian Syndrome	
			Low-set ears	11wks I	46, XY, -5, +der(5)	
			Microphthalmia	12wks I	APERT SYNDROME	
			Hypotelorism	10wks I	BECKWITH-WIEDEMANN SYNDROME; BWS	
			Hypertelorism	15wks	HOLT-ORAM SYNDROME; HOS	
			Cleft palate	11wks I	ACHONDROGENESIS, TYPE II; ACG2	
			Cleft lip	11wks I	FRASER SYNDROME	
			Macrostomia		RUTLEDGE LETHAL MULTIPLE CONGENITAL ANOMALY SYNDROME	
			Short neck		SMITH-LEMLI-OPITZ SYNDROME; SLOS	
			Increased NT	10 WKS II	SIMPSON-GOLABI-BEHMEL SYNDROME, TYPE 1; SGBS1	
			Septal defects	11wks I	ACROCALLOSAL SYNDROME; ACLS	
			Coarctation of aorta	11wks I	ASPHYXIATING THORACIC DYSTROPHY; ATD	
			Pulmonary hypoplasia	15wks	JOUBERT SYNDROME 1; JBTS1	
			Splenomegaly		HYDROLETHALUS SYNDROME	
			Asplenia		SPLIT-HAND/FOOT MALFORMATION 3; SHFM3	
			Accessory spleen		ECTODERMAL DYSPLASIA SYNDROME WITH DISTINCTIVE FACIAL APPEARANCE AND PREAXIAL POLYDACTYLY OF FEET	
			Single umbilical artery	10wks I	VATER ASSOCIATION	
			Omphalocele	10wks III	DANDY-WALKER MALFORMATION WITH POSTAXIAL POLYDACTYLY	
			Intestinal malrotation		JOUBERT SYNDROME WITH BILATERAL CHORIORETINAL COLOBOMA	

Fig. 2C

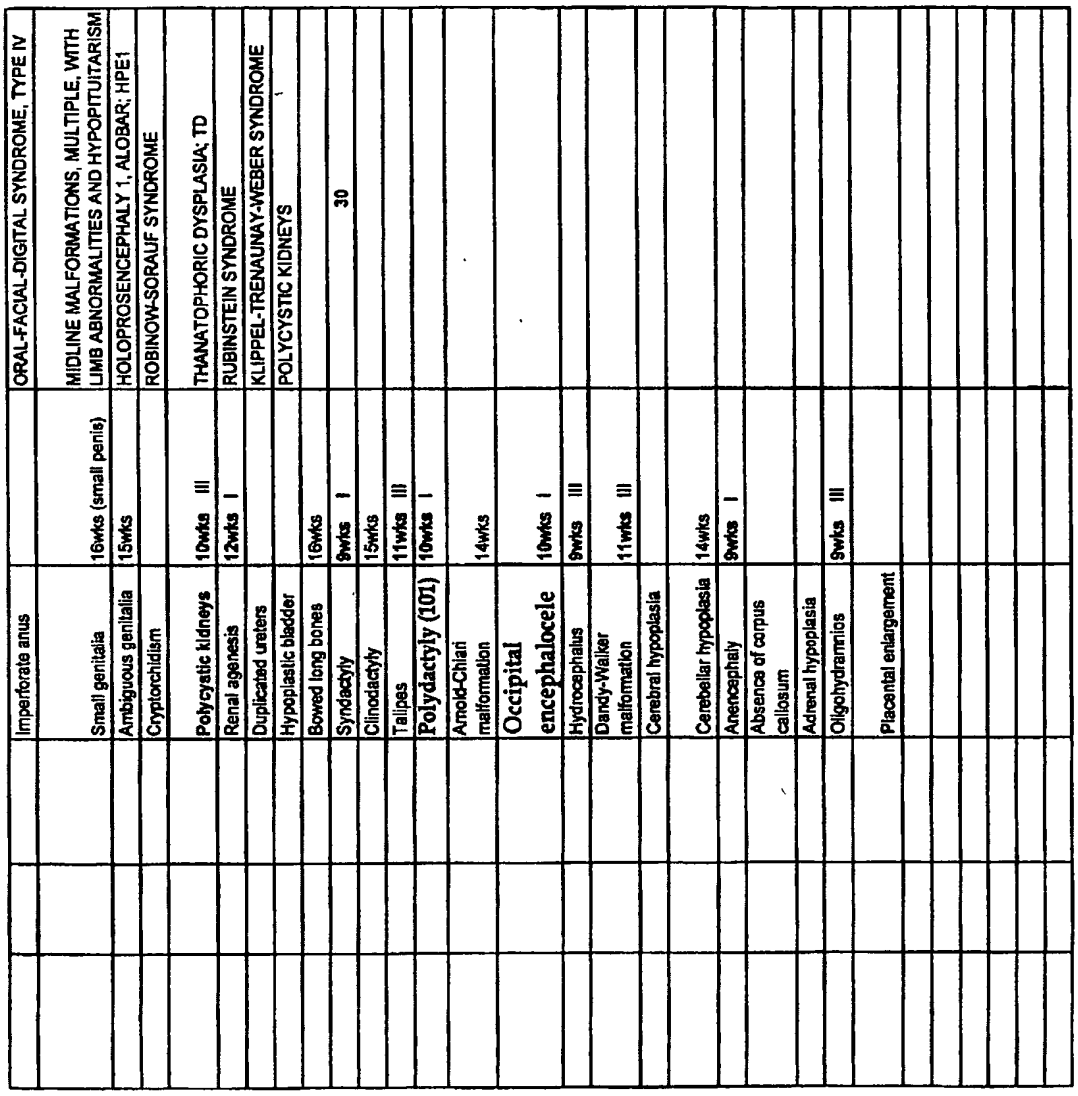
Imperforate anus
ORAL-FACIAL-DIGITAL SYNDROME, TYPE IV
Small genitalia
16wks (small penis)
MIDLINE MALFORMATIONS, MULTIPLE, WITH LIMB ABNORMALITIES AND HYPOPITUITARISM
Ambiguous genitalia
15wks
HOLOPROSENCEPHALY 1; ALOBAR; HPE1
Cryptorchidism
ROBINOW-SORAUF SYNDROME
Polycystic kidneys
10wks III
THANATOPHORIC DYSPLASIA; TD
Renal agenesis
12wks I
RUBINSTEIN SYNDROME
Duplicated ureters
KLIPPEL-TRENAUNAY-WEBER SYNDROME
Hypoplastic bladder
POLYCYSTIC KIDNEYS
Bowed long bones
16wks
Syndactyly
9wks I
30
Clinodactyly
15wks
Talipes
11wks III
Polydactyly (101)
10wks I
Arnold-Chiari malformation
14wks
Occipital encephalocele
10wks I
Hydrocephalus
9wks III
Dandy-Walker malformation
11wks III
Cerebral hypoplasia
Cerebellar hypoplasia
14wks
Anencephaly
9wks I
Absence of corpus callosum
Adrenal hypoplasia
Oligohydramnios
9wks III
Placental enlargement

Fig. 2D

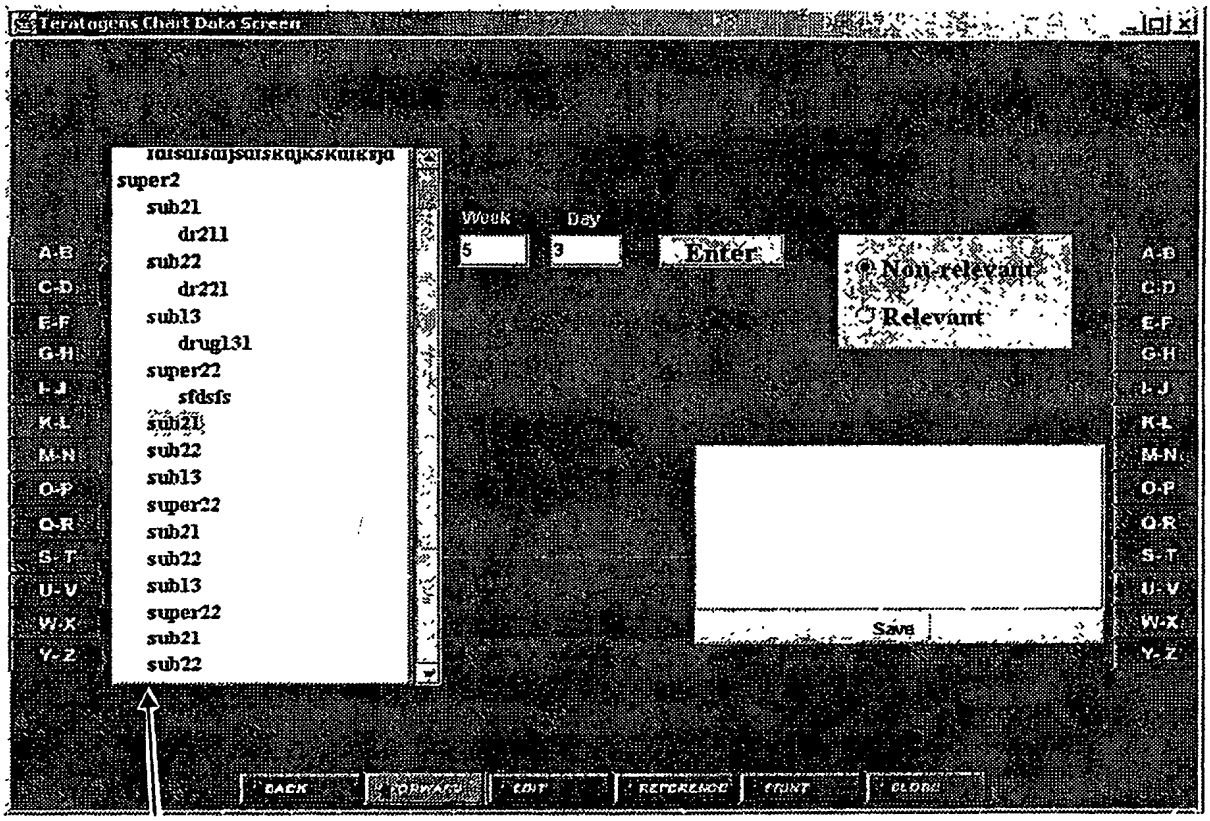
Teratogens Chart Data Screen
super2
sub21
dr211
sub22
dr221
sub13
drug131
super22
sfdsfs
sub21
sub22
sub13
super22
sub21
sub22
sub13
super22
sub21
sub22
Week
Day
5
3
Enter
Non-relevant
Relevant
Save
A-B
C-D
E-F
G-H
I-J
K-L
M-N
O-P
Q-R
S-T
U-V
W-X
Y-Z
BACK
FORWARD
EDIT
REFERENCE
PRINT
CLOSE
30

Fig. 3A

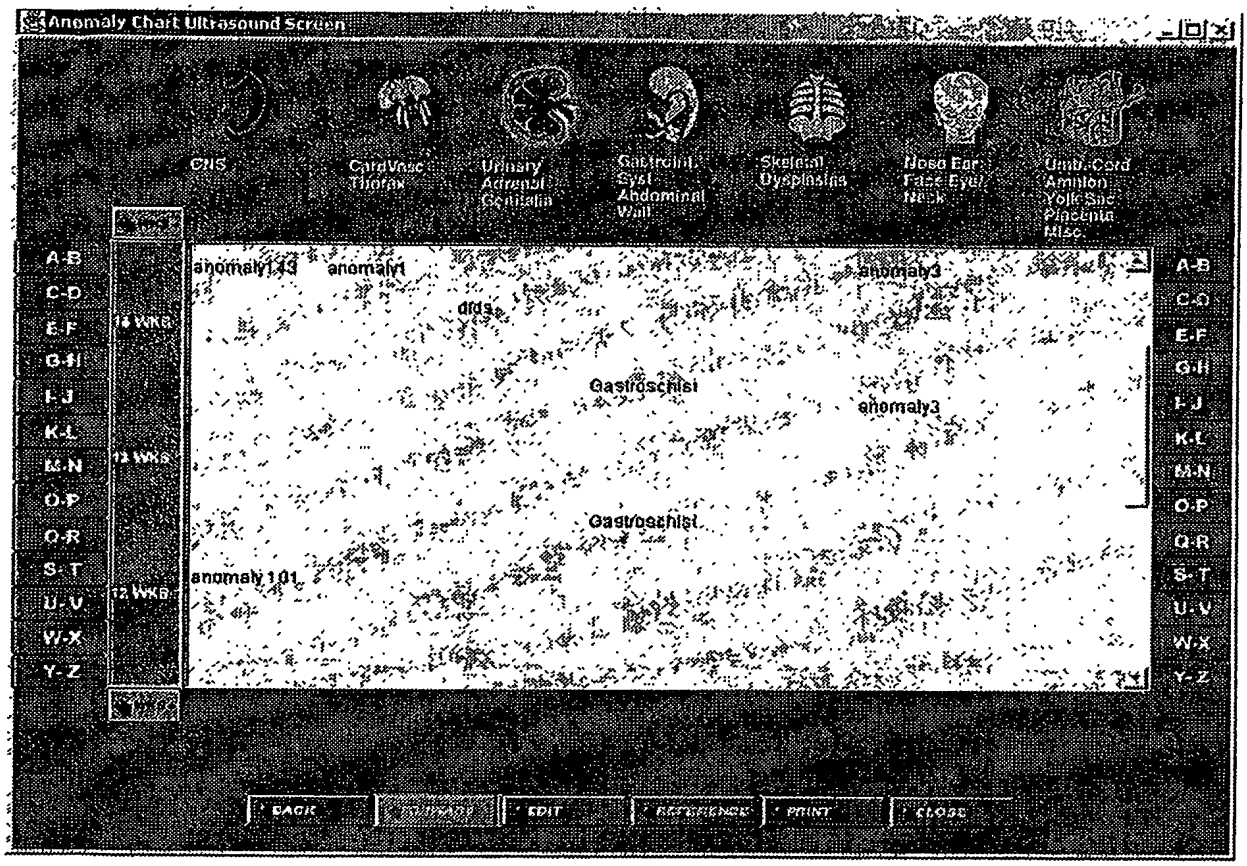
Anomaly Chart Ultrasound Screen
CNS
CardVasc Thorax
Urinary Adrenal Genitalia
Gastrointl. Syst Abdominal Wall
Skeletal Dysplasias
Nose Ear Face Eye Neck
Umb.Cord Amnion Yolk Sac Placenta Misc.
A-B
C-D
E-F
G-H
I-J
K-L
M-N
O-P
Q-R
S-T
U-V
W-X
Y-Z
anomaly143
anomaly1
anomaly3
dfds
Gastroschisi
anomaly3
Gastroschisi
anomaly101
BACK
EDIT
REFERENCE
PRINT
CLOSE

Fig. 3B

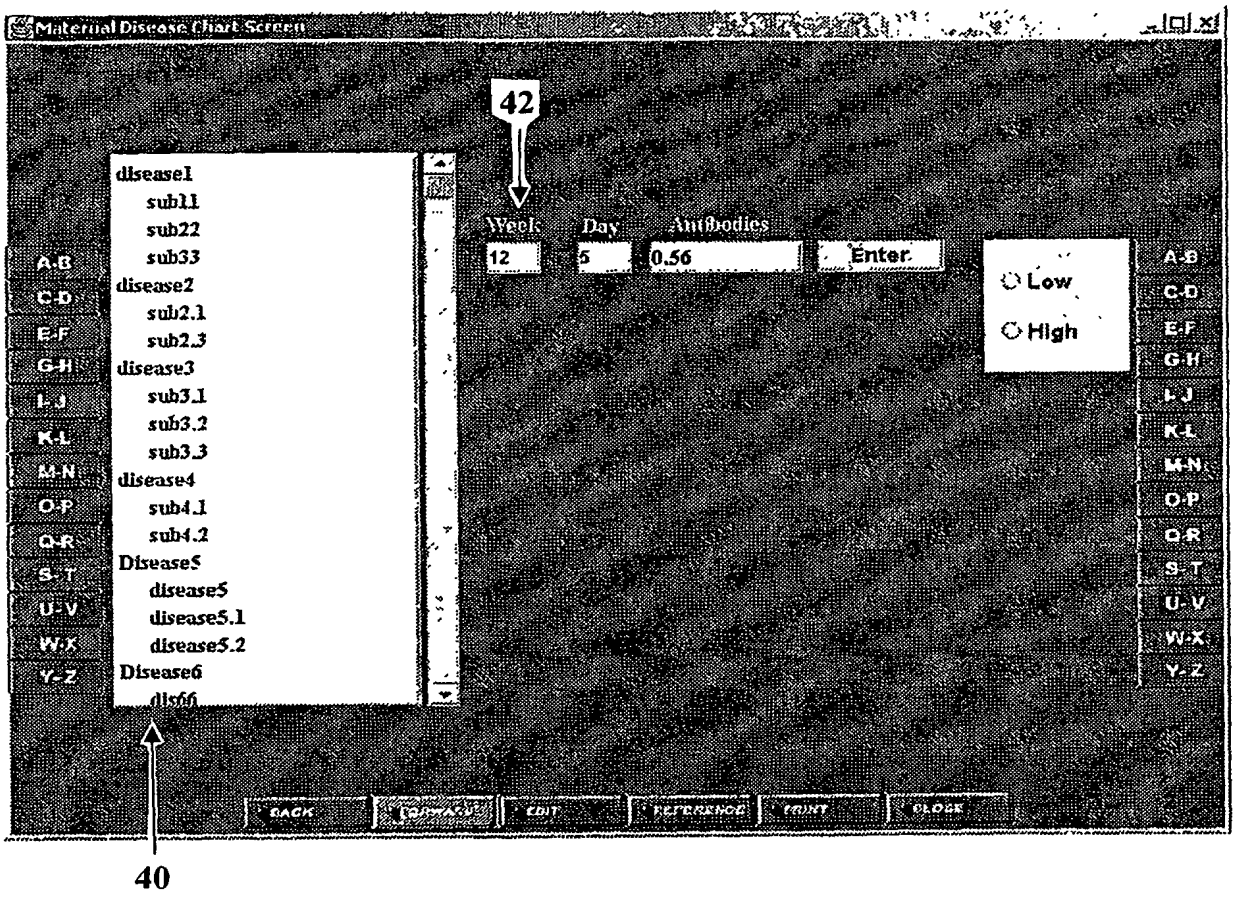
Material Disease Chart Screen
42
disease1
sub11
sub22
sub33
disease2
sub2.1
sub2.3
disease3
sub3.1
sub3.2
sub3.3
disease4
sub4.1
sub4.2
Disease5
disease5
disease5.1
disease5.2
Disease6
dis66
Week
Day
Antibodies
12
5
0.56
Enter
Low
High
A-B
C-D
E-F
G-H
I-J
K-L
M-N
O-P
Q-R
S-T
U-V
W-X
Y-Z
BACK
EDIT
REFERENCE
PRINT
CLOSE
40

Fig. 4A

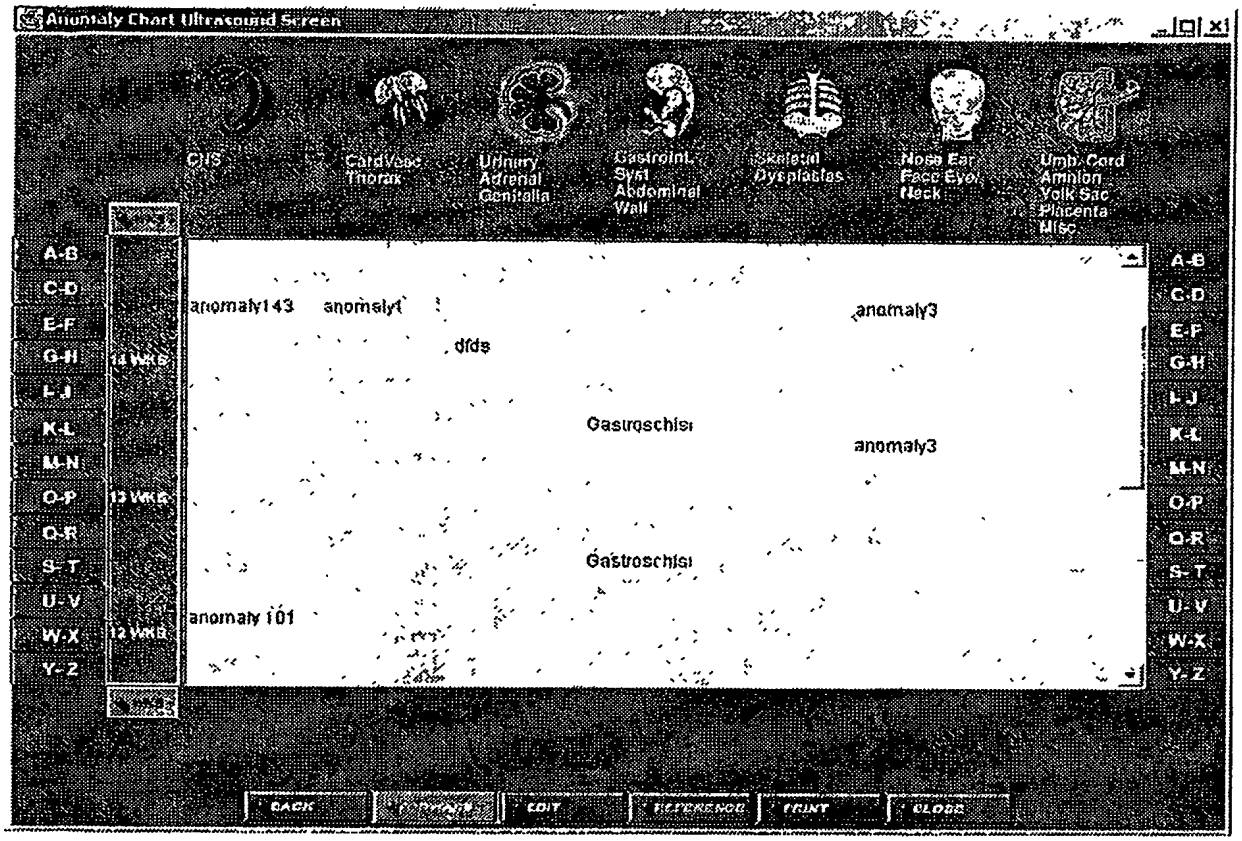
Anomaly Chart Ultrasound Screen
CNS
CardVasc Thorax
Urinary Adrenal Genitalia
Gastroint. Syst Abdominal Wall
Skeletal Dysplasias
Nose Ear Face Eye Neck
Umb. Cord Amnion Yolk Sac Placenta Misc.
A-B
C-D
E-F
G-H
I-J
K-L
M-N
O-P
Q-R
S-T
U-V
W-X
Y-Z
12 Wks
anomaly143
anomaly1
anomaly3
dfds
Gastroschisi
anomaly3
Gastroschisi
anomaly 101
BACK
EDIT
REFERENCE
PRINT
CLOSE

Fig. 4B

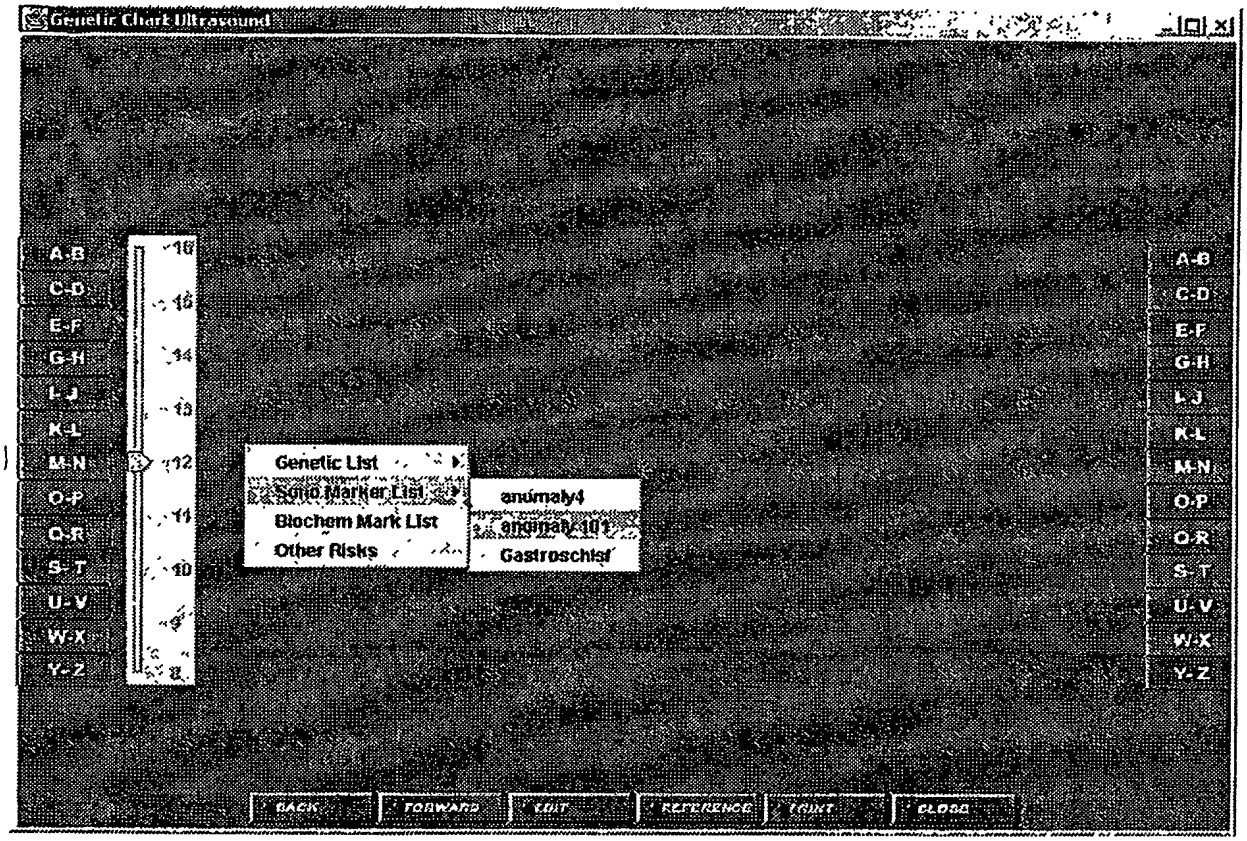
Genetic Chart Ultrasound
A-B
C-D
E-F
G-H
I-J
K-L
M-N
O-P
Q-R
S-T
U-V
W-X
Y-Z
16
15
14
13
12
11
10
Genetic List
Solid Marker List
Biochem Mark List
Other Risks
anomaly1
anomaly 101
Gastroschisis
BACK
FORWARD
EXIT
REFERENCE
PRINT
GLOSS

Fig. 4C